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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/431,593	11/01/1999	YOSHINORI UEDA	2271/60617	8935	
7	590 04/01/2002				
IVAN S KAVRUKOV			EXAMINER		
COOPER & DUNHAM LLP 1185 AVENUE OF THE AMERICAS			WARREN, MATTHEW E		
NEW YORK,	NY 10036		ART UNIT	PAPER NUMBER	
			2815		
			DATE MAILED: 04/01/2002	DATE MAILED: 04/01/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		/			
•	Application No.	Applicant(s)			
~	09/431,593	UEDA, YOSHINORI			
Office Action Summary	Examiner	Art Unit			
	Matthew E. Warren	2815			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
1) Responsive to communication(s) filed on 26 C	October 2001 .				
2a)⊠ This action is FINAL. 2b)□ Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4) Claim(s) 1-8 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-8</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the					
11) The proposed drawing correction filed on <u>October 26, 2001</u> is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received.					
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)	4) 🗍 Interview Summa	ry (PTO-413) Paper No(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 8	5) Notice of Informa	Patent Application (PTO-152)			

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DETAILED ACTION

This Office Action is in response to the Amendment filed on October 26, 2001.

Drawings

The proposed drawing correction and/or the proposed substitute sheets of drawings, filed on October 26, 2001 have been approved. A proper drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The correction to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5, 7, and 8, as far as understood, are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Groover, III et al. (US 4,804,636).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Naem (US 5,911,114).

Naem discloses (fig. 1E and col. 2, line 50 – col. 3, line 12) a semiconductor device comprising a Si substrate and a resistance pattern formed on the substrate. The pattern comprises a first resistance pattern (on Field OXide region) on the substrate at a first level and a second resistance pattern (source/drain) provided adjacent the first resistance pattern at a second level (in the substrate) lower than the first level. The second resistance pattern is connected in series to the first resistance pattern through a TiN local interconnect and has an edge defined by the first resistance pattern (edge of FOX region). The resistance pattern comprises an interlayer insulation pattern (gate dielectric) under the first resistance pattern and the second resistance pattern is lower than the insulating layer. The first resistance pattern includes a polysilicon pattern and a polycide region. The device further comprises a MOS transistor having a polysilicon gate that is identical in composition to the polysilicon pattern. The second resistance patter is formed in the substrate in the form of a salicide region defined by the first resistance pattern. Naem shows all of the elements of the claims except the first resistance pattern and the second resistance pattern having identical resistance. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a first and second resistance pattern having identical resistance values, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

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Response to Arguments

Applicant's arguments filed October 26, 2001 have been fully considered but they are not persuasive. The applicant primarily argues that the references of Groover III and Naem do not show all of the elements of the claims, specifically the lower resistance patterns having an edge defined by a first resistance pattern. The examiner maintains the previous rejection because the cited art discloses such configurations. Take for instance, Groover III in figures 4 discloses an upper resistance pattern which is gate electrode N1 and a lower resistance pattern (S/D 204). In the broadest sense of the term resistance pattern, any material in known in the art of semiconductors provides resistance and this is a resistance pattern. When taken in this view, the gate of Groover including the sidewall insulation and gate dielectric is an upper resistance pattern and the source/drain regions including the silicide layer is a lower resistance pattern. It can also be seen that the edge of the upper resistance patter defines the lower resistance pattern. A similar configuration is seen in the figures of Naem. For these reasons, the rejection is proper and this Action is made final.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew E. Warren whose telephone number is (703) 305-0760. The examiner can normally be reached on Mon-Thurs, and alternating Fri. 9:00-5:00.

than SIX MONTHS from the mailing date of this final action.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

1arch 25, 2002